

Legislation Text

File #: BILL NO. 22-133, **Version:** 1

An Ordinance authorizing the execution of Modification No. 1 to agreement dated June 28, 2021 (RFQ No. 2021-063) for professional engineering services for Water Master Plan with Burns and McDonnell Engineering Company, Inc., for an increase of \$53,545 with an amended not to exceed amount of \$303,245, and authorizing the City Manager to enter into an agreement for the same. (PWC 6/13/22)

Issue/Request:

An Ordinance authorizing the execution of Modification No. 1 to agreement dated June 28, 2021 (RFQ No. 2021-063) for professional engineering services for Water Master Plan with Burns and McDonnell Engineering Company, Inc., for an increase of \$53,545 with an amended not to exceed amount of \$303,245, and authorizing the City Manager to enter into an agreement for the same.

Key Issues:

- Water Utilities is in the process of updating the Water Master Plan.
- Several field conditions were not anticipated or foreseen, and affected the system performance during testing for water model calibration.
- These field conditions were found and rectified and the field testing of the system will be repeated to allow for proper model calibration.
- A portion of the this modification will pay the consultant for rework necessary to calibrate the model.
- As part of the original scope Water Utilities opted not to do a funding study with this project.
- The ARPA, Infrastructure Investment and Jobs Act and several other funding opportunities have convinced us that was short sighted.
- Part of this scope of services will cover potential state and federal funding options for the projects created by this master plan as well as the other existing projects currently existing in the Water and Sewer CIP.

Background:

The water master plan is built around a system model and projected system loads in both the existing water system and the proposed water system which will be required to support the growth shown in the Comprehensive Plan. To create this model the system is tested using fire flow tests with pressure monitors placed at various sites to document system response. This data is used to calibrate the model to best represent the current system conditions. The Lee's Summit water system is broken into two pressure zones. These pressure zones are separated by closed valves and act as independent systems. During the testing of the system it was found that data collected to calibrate the model was inconsistent. This led to questions about operation of the system and ultimately to valve configurations and status. The City's field crews found several pressure zone boundary valves which where intended to be normally closed in the open position. This was allowing water to move across the pressure zone boundary and cause inconsistencies in our testing data. Now that these valves have been reset the testing will need to be redone.

The Infrastructure Investment and Jobs Act became law on November 15th 2021. The Infrastructure Investment and

Jobs Act includes \$550 billion in new spending. For water infrastructure, it carries \$48.4 billion over five years for drinking water and wastewater spending at the U.S. EPA, including: \$11.713 billion each to the Drinking Water and Clean Water State Revolving Funds (SRFs), with states required to award precisely 49 percent of their share of these funds as grants or full principal forgiveness loans. The State of Missouri will receive approximately \$866 Million for water projects. This money will be distributed by the MoDNR using the State Revolving Fund (SRF) Loan process. Historically LS Water has not pursued SRF funding as the Utility cash finances its projects. The potential for grant funding or forgivable loans is what is driving the Utility to look at this now.

Mark Schaufler, Director of Water Utilities

Staff recommends approval of an Ordinance authorizing the execution of Modification No. 1 to agreement dated June 28, 2021 (RFQ No. 2021-063) for professional engineering services for Water Master Plan with Burns and McDonnell Engineering Company, Inc., for an increase of \$53,545 with an amended not to exceed amount of \$303,245, and authorizing the City Manager to enter into an agreement for the same.

Committee Recommendation:

The Public Works Committee voted unanimously 4-0 to recommend to City Council approval of an Ordinance authorizing the execution of Modification No. 1 to agreement dated June 28, 2021 (RFQ No. 2021-063) for professional engineering services for Water Master Plan with Burns and McDonnell Engineering Company, Inc., for an increase of \$53,545 with an amended not to exceed amount of \$303,245, and authorizing the City Manager to enter into an agreement for the same.